

ABSTRACT OF THE DISCLOSURE

In one embodiment, a storage device includes a controller, an integral storage medium that includes one or more stacks, where each stack includes multiple storage locations that are distributed throughout a portion of the volume of the integral storage medium, and an access mechanism that is configured to access the integral storage medium. The controller is configured to receive a command to write a unit of primary data to a first storage location. The controller is configured to generate a unit of redundant data corresponding to the unit of primary data and to control the access mechanism so that the unit of primary data is written to the first storage location in a first stack and the unit of redundant data is written to a second storage location within the integral storage medium.

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